

## **AMENDMENTS TO THE CLAIMS**

The following listing of claims will replace all prior versions and listings of claims in the application.

### **LISTING OF CLAIMS**

1 - 9. (Cancelled)

10. (Previously Presented) A system for providing a co-location service equipped with a global load balancing (GLB) function among dispersed IDCs (Internet Data Centers), wherein the co-location service is a network operation service for collectively operating a plurality of private IP networks built in each dispersed IDC as one integrated network by connecting the private IP networks, comprising;

a plurality of switching hubs, connected to each giga port of the IDCs, for changing public IP address into private IP address by constructing a network to public IP address area and private IP address area;

a plurality of giga lines for connecting the switching hubs by using a GBE module mounted in each switching hub to thereby integrate the private IP networks into the integrated network;

a L4 switch, connected to the switching hub, for performing the server load balancing;

a customer server connected to the L4 switch by means of the private IP networks; and

a GLB server, connected to a switching hub, for finding a shortest path for a client computer to connect to a server residing in an IDC.

11. (Previously Presented) The system for providing a co-location service as claimed in claim 1, wherein:
- (a) a user authentication server performs a packet filtering if the client computer connect with the private IP networks upon connecting to the internet by using a URL on a web browser;
  - (b) the client computer connected to the IDC connects with the L4 switch if the client computer is authorized, and a GLB server connected to a first switching hub performs the global load balancing, the first switching hub being one of the switching hubs that the client computer first connect with;
  - (c) the user authentication server performs a user authentication and the L4 switch performs a secondary packet filtering and the server load balancing for service port if the client computer is authorized; and,
  - (d) the switching hub assigns private IP addresses, the private IP address being different in accordance with service types, to thereby enable the client computer to use the co-location service.